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1. - 216. (Cancelled)

217. (Currently Amended) A method for modulating activity inhibiting growth of a cancer cell expressing a β integrin subunit, the method comprising: treating the cancer cell with an effective amount of an agent that binds to a MAP kinase or cytoplasmic region of an integrin such that binding of the MAP kinase to a binding domain of the integrin for said MAP kinase is inhibited—comprising an amino acid sequence of the β integrin subunit that comprises a binding domain for a MAP kinase or a polypeptide moiety sufficiently homologous with the binding domain to bind to the MAP kinase, and wherein the MAP kinase is selected from the group consisting of members of the ERK and JNK MAP kinase families.

AMENDMENT TO THE CLAIMS

218. (Currently Amended) A method according to claim 217, wherein the agent comprises an amino acid sequence of the β integrin subunit that comprises a binding domain for a MAP kinase a fragment of said integrin comprising the binding domain, or an analog or derivative thereof that binds to the MAP kinase such that the binding of the MAP kinase to the binding domain of the integrin is inhibited.

219. (Currently Amended) A method according to claim 217, wherein the agent comprises a—the polypeptide moiety sufficiently homologous with the binding domain to bind to the MAP kinaseor an analog or derivative thereof that binds to the MAP kinase or

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cytoplasmic region of an integrin such that the binding of the MAP kinase to the binding domain of the integrin is inhibited.

220. (Currently Amended) A method according to claim 227 217,

wherein the agent is a fusion protein incorporating the amino acid

sequence or an the polypeptide inhibitor moiety that binds to the

MAP kinase or the cytoplasmic region of the integrin.

221. (Currently Amended) A method according to claim 217, wherein

the agent <u>further</u> comprises an inhibitor moiety that binds to the

MAP kinase or the cytoplasmic region of the integrin and a

facilitator moiety for facilitating that facilitates passage of

the amino acid sequence or the polypeptide inhibitor moiety across

the cell membrane of the <u>cancer</u> cell, <u>and</u> wherein the facilitator

moiety is linked coupled to the amino acid sequence or the

polypeptide inhibitor moiety.

222-224. (Cancelled)

225. (Currently Amended) A method according to claim 224 217

wherein the cancer cell is a colon cancer cell.

226-237. (Cancelled)

238. (Currently Amended) A method according to claim $\frac{237}{217}$,

wherein the cancer cell is a cancer cell of a cancer is—selected

from the group consisting of cancer of the lip, tongue, salivary

glands, gums, floor and other areas of the mouth, oropharynx,

nasopharynx, hypopharynx and other oral cavities, oesophagus,

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stomach, small intestine, duodenum, colon, rectum, gallbladder,

pancreas, larynx, trachea, bronchus, lung, breast, uterus, cervix,

ovary, vagina, vulva, prostate, testes, penis, bladder, kidney,

thyroid and skin.

239-241. (Cancelled)

242. (Currently Amended) A method according to claim 241 217

wherein the MAP kinase is ERK2.

243. (Currently Amended) A method according to claim 217 or 242

wherein the β integrin subunit integrin comprises an integrin

subunit is selected from the group consisting of β 3, β 5 and β 6.

244. (Currently Amended) A method according to claim 217 wherein

the agent the amino acid sequence or the polypeptide inhibitor

moiety comprises a polypeptide having an amino acid sequence

selected from the group consisting of RSKAKWQTGTNPLYR (SEQ ID No.

2), RARAKWDTANNPLYK (SEQ ID No. 22), RSRARYEMASNPLYR (SEQ ID No.

23), and RSKAKNPLYR (SEQ ID No. 3), or an analog or derivative of

the polypeptide which binds to a binding site of the MAP kinase

for the integrin.

245. (Currently Amended) A method according to claim 217 wherein

the polypeptide moiety agent comprises a core amino acid sequence

of the binding domain of the integrin or an analog or derivative

of the core amino acid sequence which binds to a binding site of

the MAP kinase for the integrin-comprises the binding domain of

the eta integrin subunit in which one or more amino acids in

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region of the binding domain that is non-essential to the binding of the MAP kinase has been deleted.

246. (Cancelled)

247. (Currently Amended) A method for modulating activity of a cell prophylaxis or treatment of cancer in a mammal, the method comprising:

selecting an agent for effecting the modulation of the cellular activity; inhibiting growth of cancer cells that express a β integrin subunit; and

treating the cell with administering an effective amount of the agent to the mammal, the agent binding to a MAP kinase expressed by the cell such that binding of the MAP kinase to a eytoplasmic region of an integrin is inhibited. the agent comprising an amino acid sequence of the β integrin subunit that comprises a binding domain of the β integrin subunit for a MAP kinase or a polypeptide moiety sufficiently homologous with the binding domain to bind to the MAP kinase, and wherein the MAP kinase is selected from the group consisting of members of the ERK and JNK MAP kinase families.

248. (Cancelled)

249. (Currently Amended) A method according to claim 247 or 248 wherein the agent <u>further</u> comprises an <u>inhibitor moiety that binds</u> to the MAP kinase and a facilitator moiety that facilitates passage of the <u>inhibitor amino acid sequence or the polypeptide</u> moiety across the cell membrane of the <u>cancer cells—the cell</u>, <u>and</u>

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wherein the facilitator moiety is linked-coupled to the amino acid sequence or the polypeptide inhibitor-moiety.

250-251. (Cancelled)

252. (Currently Amended) A method according to claim 251 247 wherein the cancer is selected from the group consisting of cancer of the lip, tongue, salivary glands, gums, floor and other areas of the mouth, oropharynx, stomach, small intestine, duodenum, colon, rectum, gallbladder, pancreas, larynx, trachea, bronchus, lung, breast, uterus, cervix, ovary, vagina, vulva, prostate,

253. (Currently Amended) A method according to claim 247 wherein the MAP kinase is a member of the ERK family or the JNK family ERK2.

testes, penis, bladder, kidney, thyroid and skin.

254. (Currently Amended) A method according to claim 247 or 253 wherein the β integrin subunit integrin comprises an integrin subunit—is selected from the group consisting of β 3, β 5 and β 6.

255. - 263. (Cancelled)

264. (New) A method according to claim 247 wherein the amino acid sequence or the polypeptide inhibitor moiety comprises an amino acid sequence selected from the group consisting of RSKAKWQTGTNPLYR (SEQ ID No. 2), RARAKWDTANNNPLYK (SEQ ID No. 22), RSRARYEMASNPLYR (SEQ ID No. 23) and RSKAKNPLYR (SEQ ID No. 3).

265. (New) A method according to claim 247 wherein the polypeptide moiety comprises the binding domain of the β integrin subunit in which one or more amino acids in a region of the binding domain

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that is non-essential to the binding of the MAP kinase has been

deleted.

266. (New) A method for prophylaxis or treatment of cancer in a

mammal, comprising administering to the mammal an effective amount

of an agent comprising an amino acid sequence of a β integrin

subunit expressed by cancer cells of the cancer that comprises a

binding domain of the β integrin subunit for a MAP kinase or a

polypeptide moiety sufficiently homologous with the binding domain

to bind to the MAP kinase, and wherein the β integrin subunit is

selected from the group consisting of β 3, β 5 and β 6 integrin

subunits.

267. (New) A method according to claim 266 wherein the agent

further comprises a facilitator moiety that facilitates passage of

the amino acid sequence or the polypeptide moiety across the cell

membrane of the cancer cells and wherein the facilitator moiety is

coupled to the amino acid sequence or the polypeptide moiety.

268. (New) A method according to claim 266 or 267 wherein the

polypeptide moiety comprises the binding domain of the β integrin

subunit in which one or more amino acids in a region of the

binding domain that is non-essential to the binding of the MAP $\,$

kinase has been deleted.

269. (New) A method according to claim 266 or 267 wherein the

cancer is selected from the group consisting of cancer of the lip,

tongue, salivary glands, gums, floor and other areas of the mouth,

oropharynx, stomach, small intestine, duodenum, colon, rectum,

gallbladder, pancreas, larynx, trachea, bronchus, lung, breast,

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uterus, cervix, ovary, vagina, vulva, prostate, testes, penis, bladder, kidney, thyroid and skin.

270. (New) A method according to claim 266 wherein the MAP kinase is ERK2 or JNK-1.

271. (New) A method according to claim 270 wherein the MAP kinase is ERK2.

272. (New) A method according to claim 266 wherein the β integrin subunit is β 6.

273. (New) A method according to claim 272 wherein the MAP kinase is ERK2 or JNK-1.

274. (New) A method according to claim 273 wherein the MAP kinase is ERK2.